## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE |  |  |  |
|---------------------------|----------|--------|------|--|--|--|
| FEE DETERMINATION         |          |        |      |  |  |  |
| O.I.P.E. CLASSIFIER       |          |        |      |  |  |  |
| FORMALITY REVIEW          |          |        |      |  |  |  |
| RESPONSE FORMALITY REVIEW |          |        |      |  |  |  |

## INDEX OF CLAIMS

| v | Rejected                   | N | Non-electer  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ |                            | 0 | Objected     |

|          |                 |  |              | ,                |          | ÷            | •••      | · · · · · · | •••• |                    | • • • • • • |          | 163      |          | EU            |                 |                 |          | 0        |  | ····    |  | _ | <b></b>  | . 00     | ECIT    |         |        |              |              |  |                        |          |          |
|----------|-----------------|--|--------------|------------------|----------|--------------|----------|-------------|------|--------------------|-------------|----------|----------|----------|---------------|-----------------|-----------------|----------|----------|--|---------|--|---|----------|----------|---------|---------|--------|--------------|--------------|--|------------------------|----------|----------|
| Cla      | im              |  | ĮĮ           | フ                | _        | Dat          | te       |             | _    |                    |             | CI       | im       |          |               |                 |                 | Dat      | 0        |  |         |  | ] | Cle      | uim      |         |         |        | Da           | te           |  |                        |          | _        |
| П        | 12              | Z  |              | $\overline{}$    |          |              |          | $\neg$      |      | T                  | 7           |          | =        |          |               |                 |                 |          | $\neg$   | 1  |         |  | 7 |          | 3        | Т       | Т       | Т      | Т            | Г            | Τ  | П                      |          | Г        |
| Finel    | \$              | 1/0//  | 9/           | 1                |          |              |          | - 1         |      |                    | ĺ           | F        | Ortginet |          |               |                 | i               |          | - 1      | 1  | - (     | İ  |   | Final    | Original | 1       |         | 1      | 1            | 1            | 1  | 1                      |          | Ĺ        |
| 臣        | ō               | 6  | 3            | <u> </u>         |          | _            | $\sqcup$ | _           | _    | _                  | 4           | 1        | δ        | Щ        | Щ             |                 | $\Box$          | _        | _        |  | 4       |  | 4 | E        | Ō        | 4       | 1       | 1      | <b>ļ</b>     | ╀            | 1  | Ш                      | Ц        | L        |
| $\vdash$ | 4               | ₽_   | _            | L                | Щ        | _            | $\sqcup$ | _           | 4    | 4                  | 4           | _        | 51       | Щ        | $\dashv$      |                 | _               |          | {        | -4   | 4       | -  | 4 | $\vdash$ | 101      | +       | ╀       | 1      | ↓_           | ↓_           | <del> </del>                                     | Н                      |          | $\vdash$ |
| $\vdash$ | 4               | ┞-   | _            | L                | Щ        | <u> </u>     | Н        | -4          | 4    | 4-                 | 4           | -        | 52<br>53 | ١        | -             |                 | -4              |          | -        | -+   |         | -  | 4 | -        | 102      | +       | +       | 1-     | ╄            | ┺            | ــ   | Ш                      | Ц        | L        |
| $\vdash$ | 1               | -  | _            | L                | Ш        | L            | $\sqcup$ | {           | 4    | $\bot$             | 4           | <u> </u> |          | Щ        | _             |                 | _               |          |          | }  | -       |  | 4 |          | 103      | 4       | +       | +-     | 1_           | ↓_           | <del> </del> _                                   | Ш                      | Ц        | ļ.,      |
| $\vdash$ | 4               | -  | -            | -                | -        |              | ┝╌┤      |             | -    |                    | 4           | -        | 54<br>55 |          | $\dashv$      | -1              | -               |          | ᅱ        | -+   | -}      |  | 4 | -        | 106      | +       | ┿       | +-     | ╁            | ┼-           | ┼-   | Н                      | H        | $\vdash$ |
| $\vdash$ | 7               | ├  | -            | ├—               | -        | ┝            | ⊢┼       | -+          | ᅱ    | +                  | ┥           | _        | 56       | -        | $\dashv$      | Н               |                 | ┥        | ╌┤       | -+   | +       |  | 4 | -        | 106      | +       | ┿       | ╁      | ╂─           | ⊢            | ┼╌   | Н                      | Н        | ۲.       |
| $\vdash$ | ď               | <b>├</b>   | ⊢            | ₩                | -        | ┝            | Н        | ╌           | Н    | +                  | 1           |          | 57       | -        | $\vdash$      |                 | -               | ᅱ        | -+       | -  | ᅥ       | $\dashv$   | ┥ | <u> </u> | 107      | ╁       | ╁       | ┿      | ╁╌           | ╁╌           | ┿  | Н                      | H        | H        |
| $\vdash$ | 4               | <u>r</u>   | -            | -                | Н        |              |          | -           | H    | +                  | ┪           | -        | 58       | Н        | $\vdash$      | Н               | -               | ᅥ        |          | +  | 7       | +  | 4 | $\vdash$ | 108      | +       | +       | +      | ╁            | ✝            | 1  | H                      | Н        | -        |
| $\vdash$ | 0               | <del>                                     </del> | -            | -                |          | -            | $\vdash$ | -           | ٦    | +                  | 7           | $\vdash$ | 59       | Н        | $\vdash$      |                 |                 |          | _        | 7  | _       | $\neg$   | 1 | $\vdash$ | 109      | +       | +       | 1      | ┰            | 1            | t  | Н                      | Н        | Г        |
|          | 6               | $\vdash$   | Н            | $\vdash$         | _        | _            | Н        | 7           |      | +                  | 7           | -        | 60       |          |               |                 |                 | $\dashv$ | _        | 7  | ┪       | $\neg$   | 1 |          | 110      | $\top$  | +       | 1      | 1            | T            | 1  | П                      | Н        | Г        |
|          | f               | 1  | <u> </u>     |                  |          | _            | †-†      | }           |      | -                  | 1           |          | 61       | П        |               | $\Box$          |                 |          | $\neg$   |  | 7       |  | 7 |          | 111      | 丁       | 1       | Ť      | T            | T            |  | M                      | П        | Γ        |
|          | ⇟               | 5  |              |                  |          |              |          |             |      | $\Box$             | 7           |          | 62       |          |               |                 |                 |          |          | J  | J       |  | ] |          | 112      | J       | I       | Ι      | Γ            |              | Γ  |                        |          | Γ        |
|          | 13              |  |              |                  |          |              |          |             |      |                    | ]           |          | 63       |          |               |                 |                 |          |          |  | J       | $oldsymbol{ol}}}}}}}}}}}}$ | ] |          | 113      | I       | Ι       | Γ      | Γ            | Γ            |  |                        |          | Ē        |
|          | 2 2 1 2 1 2 1 Z |  |              |                  |          |              |          |             |      | I                  | ]           |          | 64       |          |               |                 |                 |          | $\Box$   | $oldsymbol{oldsymbol{oldsymbol{\square}}}$ | $\Box$  | $\perp$  | ] |          | 114      | I       | I       | $\Box$ |              |              |  |                        |          |          |
|          | þ               | 匚  |              | 匚                |          |              |          |             |      | $oldsymbol{\perp}$ | _]          |          | 65       |          |               |                 |                 |          |          | $\Box$                                     | $\perp$ | $\bot$   | 1 |          | 115      | $\perp$ | L       | Ĺ      |              | L            |  |                        |          | Ľ        |
|          | 6               | $oxedsymbol{oxed}$                               |              | <u> </u>         | _        |              | Ц        | $\Box$      |      |                    | _           |          | 66       |          |               |                 |                 |          | $\perp$  | $\bot$                                     | _       | _  | 1 | L        | 116      | 1       | 1       | 1      |              | L            |  | Ц                      |          | _        |
|          |                 |  | L.,          | 1                |          | Ш            | $\sqcup$ | _           | _    | _                  | 4           | $\perp$  | 67       | Ц        | $\sqcup$      | Ц               | _               | _        | _        | 4  | _       | -  | 4 |          | 117      | 4       | 4_      | 4_     | ـــ          | L            | $\sqcup$   | Ш                      |          | _        |
| P        | 18              | 臣  | يد           | <u>_</u>         |          |              | $\sqcup$ | _           | _    | 4                  | 4           | _        | 68       |          | _             |                 | _               | _        | _        | 4  | 4       |  | ₹ |          | 118      | +       | 4       | ╄      | ١            | <b>!</b>     |  | $\Box$                 | _        |          |
| Ш        | J               | 1  | 7            | ـــ              |          | _            | Н        | _           | _    | _                  | 4           | <u> </u> | 59       | Ш        |               |                 | _               | _        | _        | 4  |         |  | 4 |          | 119      | 1       | 4       | ╀      | ┞-           | L            |  | $\Box$                 | _        | _        |
| _        | 20              | $\Box$   | 1            | L                |          | L            |          |             | _    | $\perp$            |             | 1_       | 70       |          |               |                 |                 | _        | _        |  | _       |  | 4 |          | 120      | $\perp$ | 1       | 1      | L            | L            |  |                        | $\Box$   | _        |
|          | 21              | $\Box$   | Ц            | L                | L        |              | Ц        | _           |      |                    | 4           | L        | 71       | Ц        | $\Box$        | Ц               |                 |          | _        | _1   | _       |  | 1 |          | 121      | _       | 1_      | 丄      | L            | _            | Ш  | ┙                      | _        | _        |
|          | 22              | Ц  | Ц            | L                | Щ        | ᆫ            | Ц        | _           | _    | _                  | 4           |          | 72       |          |               | 4               | _               | _        |          | _}   | -4      |  | 1 |          | 122      | 4       | -       | 1_     | ┞-           | <b>!</b> _   | $\Box$   | _                      | _        | _        |
|          | 23              | Ц  | Ц            | _                |          |              | $\sqcup$ | _           | _    | 4                  | 4           | -        | 73       | Ш        | $\rightarrow$ |                 | -               | 4        | -        | -1   |         | -  | 4 | $\vdash$ | 123      | +       | 4-      | ╀-     | ⊢            | ┞_           | _  | $\dashv$               | _        | _        |
| 13       | 3               | Н  | 4            | -                |          | L            | $\vdash$ | _           |      |                    | 4           | -        | 74<br>75 | H        | Н             |                 |                 | -4       | -        |  |         |  | 4 | -        | 124      | +       | +       | ╄      | ├-           | ├-           | -  | $\dashv$               | $\dashv$ | _        |
|          | 25              | Н  | 4            | 1                | _        |              | ┰        | -           | {    |                    | 4           | -        | 76       | Н        | -             |                 |                 | }        | -        | -{   | -+      | <del>-i</del> -  | - |          | 125      | +       | ╀       | ╄      | ├-           |              | -  |                        | -        | _        |
|          | 26<br>27        | Н  | 1            | <del>])-</del> : | /        | -            |          |             |      | -+-                | -           |          | 77       | Н        |               |                 | -               | }        | -        | -  | -       |  | 1 | $\vdash$ | 128      | +       | +-      | ╁      | ╁            | ł-           | H  | $\vdash$               | $\dashv$ | _        |
|          | 28              | -  | V            | _                | $\vdash$ |              | ┝        |             |      | +                  | ┨           | -        | 78       | Н        | $\dashv$      | -               | $\dashv$        | ┪        | -        | +  | +       | +  | ┨ | $\vdash$ | 128      | ┿       | ╁       | ╁      | ╁╌           | ├-           | -  | $\vdash \vdash \vdash$ | Н        | _        |
| 1        | 28              | Н  | <u> </u>     | ┝                | .—       |              | ╌┤       | -+          | -    | +                  | ┥           | -        | 79       | Н        |               |                 | $\dashv$        |          |          | -  | -1      |  | ┨ |          | 129      | +-      | 十       | ┿      | ┼-           | ├-           | -  | $\vdash$               | $\dashv$ | _        |
|          | 30              | 1  | 4            | 1                | -        | -            | -        | -           | -    | +                  | ┪           | -        | 80       | -        | -             |                 | -               | _        |          | -1   | 7       |  | 1 |          | 130      | +       | +       | +      | <del> </del> | 1            | <del> </del>                                     |                        | _        | _        |
| H        | 31              | +  | 1            | ┢                |          | -            | $\vdash$ | -           | ٦    | $\dashv$           | 7           |          | 81       | -        | -             |                 | $\neg$          | -1       | 7        | 7  | -1      |  | 1 |          | 131      | +       | 1       | +      | 1            | $\vdash$     |  |                        | П        |          |
| H        | 32              | 1  | 1            | $\Box$           |          |              | П        |             |      | 7                  | 7           |          | 82       |          |               |                 |                 |          | $\neg$   | $\neg$                                     | ٦       | 7  | 7 |          | 132      | 7       | T       | 1      | Τ            | Г            | ī  |                        |          | Γ        |
|          | 33              | IJ.  | κt           | -                |          |              |          |             |      |                    | ]           |          | 83       |          |               |                 |                 |          |          |  | $\Box$  |  | ] |          | 133      | I       | Τ       | T      |              |              |  |                        |          |          |
|          | 34              | *  | X<br>V       |                  |          |              |          |             |      |                    | ]           |          | 84       |          |               |                 |                 |          |          |  |         |  | ] |          | 134      | $\perp$ | $\perp$ | L      |              |              |  |                        |          | L        |
|          | 35              |  |              |                  | L        |              |          |             |      |                    | ]           |          | 85       |          |               |                 |                 |          | _        | _  | _       | _  | 7 |          | 135      | 1       | _       | L      | 1            | L            | 1  |                        | Ш        | L        |
| Ш        | 36              | <u> </u>   | _            | <u> </u>         | _        | <u>_</u>     | Ш        | _           | _    | 4                  | 4           | <u>_</u> | 86       | _        | Ш             | Ш               | $\sqcup$        | 4        |          |  | 4       | _  | 4 |          | 136      | 4       | 4       | _      | ↓_           | ┡            | ↓_   | $\vdash$               | Щ        | ۴.       |
|          | 37              |  | _            | <b> </b>         | _        | _            | $\sqcup$ | _           | _    | 4                  | 4           | -        | 87       | L        | Ц             | Ц               | Ц               | 4        | _        | 4  | _       |  | 4 | _        | 137      | - -     | +       | +      | ┼-           | ↓_           | ↓_   | Щ                      | Н        | -        |
| Н        | 38              |  | <u> </u>     | ┞                | <u> </u> | -            | $\sqcup$ | _           | _    | 1                  | 4           | _        | 88       | L        |               | Ы               | _               | $\dashv$ | $\dashv$ | -  | -       |  | 4 |          | 38       | +       | +       | 4      | ┼-           | -            | ├-   | $\vdash$               | Н        | -        |
|          | 39              | -  | ⊢            |                  | -        | -            | ┦┤       | -           | _    | +                  | 4           | -        | 89       | -        | Н             | $\vdash \dashv$ | $\vdash$        | -        |          |  | ᆛ       | -+-  | ┥ |          | 139      | +       | +-      | +      | ╁            | ├            | <del> </del>                                     | ⊢┤                     | Н        | -        |
| 1        | 4               |  | L            | 1                | L        | _            | $\sqcup$ | 4           | _    | $\perp$            | 4           | -        | 90       | _        | Ш             | Н               | Н               | 4        | _        | 4  | 4       | +  | 4 | $\vdash$ | 140      | - -     | +       | +-     |              | <del> </del> | <b>├</b>   | Н                      | Н        | -        |
|          | 41              |  | L            | 1_               | <u> </u> | _            | Ш        | _           | _    | 4                  | 4           | _        | 91       |          | Щ             | Щ               | 1               | _        | _        | 4  | 4       |  | 4 |          | 141      | 4       | 1       | 1      | ↓_           | -            | ╄  | $\vdash$               | Н        | <u> </u> |
| $\perp$  | 42              | 1  | L            | ↓_               | -        | _            | $\sqcup$ | _           | _    | 4                  | 4           | _        | 92       | Ц        | Ц             | Щ               | $\vdash$        | _        | _        | 4  | 4       |  | - | -        | 142      | -       | +-      | ╀      | ╄            | ↓_           | ١.,  | $\vdash$               | Н        | -        |
| -        | 43              |  | <del> </del> | ├-               | -        | -            | ⊢∤       | -           |      | +                  | 4           | -        | 93       | $\vdash$ | Н             | Н               | $\vdash \dashv$ | _        | -        | -  | -       | +  | 4 | -        | 143      | -       | +       | +      | +            | ├-           | ├-   | ⊢┤                     | Н        |          |
| <b> </b> | 44              |  | -            | ┼-               | -        | -            | $\vdash$ |             | _    | +                  | 4           | -        | 94       | Н        | Н             | Н               | $\dashv$        | -        |          | 4  | -{      | +  | - | -        | 144      | +       | +       | ╂      | +            | ├-           | -  | ⊢┤                     | Н        | _        |
| -        | 45<br>46        |  | -            | ╀                | -        | <del> </del> | ⊦⊣       | $\dashv$    | -    | +                  |             | -        | 95<br>96 | $\vdash$ | $\vdash$      |                 | -               | $\dashv$ |          | $\dashv$                                   | -{      | +  | 4 |          | 146      | +       | +       | ╁      | +            | +            | -  | $\vdash$               | Н        | _        |
| -        | 47              | +  | -            | ┼-               | -        | -            | $\vdash$ | -           | -    | +                  | -           | -        | 97       | $\vdash$ | $\dashv$      |                 | -               | -        | -        | $\dashv$                                   | -       |  | - |          | 147      | +       | ╁       | +      | ╁            | +            | -  | $\vdash$               | Н        | -        |
| $\vdash$ | 48              | <del> </del>                                     | -            | +-               | $\vdash$ | -            | $\vdash$ | $\dashv$    | -    | +                  | ┨           | -        | 98       | Н        | H             | $\vdash$        | -               | -        | $\dashv$ | $\dashv$                                   | -       | -+-  | ┥ |          | 148      | ┿       | +       | ╁╴     | ╁╾           | +-           | -  | $\vdash$               | Н        | _        |
|          | 49              |  | _            | $\vdash$         | _        | $\vdash$     | $\vdash$ | -           | -    | +                  | ┪           | -        | 99       | H        | Н             | $\vdash$        | $\dashv$        | ┥        | -        | $\dashv$                                   | 7       | -+-  | ┨ | -        | 149      | 十       | +       | +      | ╆            | $\vdash$     | <del>                                     </del> | ┌┤                     | Н        | _        |
| -        | 50              |  |              | 1                | t-       | -            | $\vdash$ |             | -    | +                  | ┪           | -        | 100      | Н        | Н             |                 |                 | -        | -        | -  | -1      | 寸  | 1 |          | 50       | +       | +       | +-     | †-           | 1            | 1  | М                      | Н        | _        |
|          |                 | _  |              |                  |          |              |          |             |      |                    | _           | _        |          | _        |               |                 |                 |          |          |  |         |  | _ |          |          |         |         |        | _            | -            | _  |                        |          | _        |

If more than 150 claims or 10 actions staple additional sheet here

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